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NOTICE OF ALLOWANCE AND FEE(S) DUE

71407

09/07/2010

07/30/2003

EXAMINER LE, HOA T

ART UNIT

PAPER NUMBER

1780

1787

DATE MAILED: 09/07/2010

ROBERT A. KENT P.O. BOX 1431 DUNCAN, OK 73536

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.

10/631,954 M. Vikram Rao 2003-IP-010829U1 TITLE OF INVENTION: PARTICULATES COMPRISING SILICA AND ALUMINA, AND METHODS OF UTILIZING THESE PARTICULATES IN

SUBTERRANEAN APPLICATIONS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/07/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS <u>STATUTORY PERIOD CANNOT BE EXTENDED.</u> SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

	ENCE ADDRESS (Note: Use Bi	lock 1 for any change of address)	No Fee pap hav	te: A certificate of me(s) Transmittal. This ers. Each additional pre its own certificate of	ailing can only be used for certificate cannot be used for paper, such as an assignment of mailing or transmission.	or domestic mailings of the cor any other accompanying ont or formal drawing, must
ROBERT A. K P.O. BOX 1431 DUNCAN, OK 7	ENT	7/2010	I he Sta add trai	Certing reby certify that this tes Postal Service with the service to the Mail standard to the USPTO	ficate of Mailing or Trans Fee(s) Transmittal is being th sufficient postage for fir Stop ISSUE FEE address O (571) 273-2885, on the d	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	₹ <i>I</i>	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/631,954	07/30/2003		M. Vikram Rao		2003-1P-010829U1	1780
TITLE OF INVENTION SUBTERRANEAN APP		OMPRISING SILICA A	ND ALUMINA, AND MI	ETHODS OF UTILIZ	ZING THESE PARTICUL	ATES 1N
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/07/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS	7		
LE, He	OA T	1787	428-402000	_		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON PLEASE NOTE: Unless an assignee is identified below, no assignee recordation as set forth in 37 CFR 3.11. Completion of this form is NO			• •	o 3 registered patent ively, de firm (having as a n agent) and the names orneys or agents. If no printed.	nember a 2 of up to o name is 3	ocument has been filed for
(A) NAME OF ASSIC	GNEE		(B) RESIDENCE: (CIT	Y and STATE OR CO	OUNTRY)	oup entity 🚨 Government
4a. The following fee(s) are submitted: 1ssue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			A check is enclosed. Payment by credit ca	rd. Form PTO-2038 i	previously paid issue fee as attached. the required fee(s), any decentions a	,
5. Change in Entity Stat	t us (from status indicate s SMALL ENTITY stati		☐ b. Applicant is no low	oger claiming SMALI	ENTITY status. See 37 C	F R 1.27(a)(2)
	d Publication Fee (if req	uired) will not be accepte	ed from anyone other than			ne assignee or other party in
				Date		
Typed or printed name						
This collection of informan application. Confident submitting the completed this form and/or suggestings 1450, Alexandria, V.	ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this bu irginia 22313-1450. DC 12.1450	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain or 1.14. This collection is es y depending upon the indi the Chief Information Offic COMPLETED FORMS T	retain a benefit by the stimated to take 12 mi vidual case. Any com- er, U.S. Patent and T. O THIS ADDRESS.	e public which is to file (an inutes to complete, includir innents on the amount of ti- rademark Office, U.S. Dep SEND TO: Commissioner	d by the USPTO to process) ng gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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ROBERT A. KENT			LE, H	OA T
P.O. BOX 1431			ART UNIT	PAPER NUMBER
DUNCAN, OK 73:	536		1787	
DATE MAILED; 09/07/2010			0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 238 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 238 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
Notice of Allowability	10/631,954 Examiner	RAO, M. VIKRAM Art Unit	
0.00	H. (Holly) T. Le	1787	
The MAILING DATE of this communication appears All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	this application. If not included nication will be mailed in due course. TH	
1. \boxtimes This communication is responsive to <u>Amendment filed Aud</u>	gust 16, 2010.		
2. The allowed claim(s) is/are <u>1,2,4-8,10-17 and 60-63</u> .			
 3. ☐ Acknowledgment is made of a claim for foreign priority unal a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 	e been received.		
3. Copies of the certified copies of the priority do	cuments have been received	in this national stage application from th	e
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review	(PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	•		
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		ormal Patent Application mmary (PTO-413),	
_ ,	Paper No./I	Mail Date	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>7/30/2003</u> 	/. ∐ Examiner's /	Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's	Statement of Reasons for Allowance	
of Biological Material	9. 🔲 Other		
/H. (Holly) T. Le/			
Primary Examiner, Art Unit 1787			

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: None of the prior art references of record, singly or combined, teaches or suggests particulates comprising silica and alumina wherein the amount of alumina is from 0.1 to 25 wr% having at least one intercommunicating void as required in the instant claims. The porous particulates as taught by the Dejaiffe reference (US 6,913,643) comrpise closed pores with the open structure at the surface formed by broken cells (col. 5, lines 21-34); therefore, the internal pores (closed cells) cannot communicate to the surface of the particulate and the voids (broken cells) in the surface are closed to the interior of the particulate.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to H. (Holly) T. Le whose telephone number is 571-272-1511. The examiner can normally be reached on 12:30 p.m. to 9:00 p.m. (EST), Mondays to Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Callie Shosho can be reached on 571-272-1123. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 1787

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/H. (Holly) T. Le/ Primary Examiner, Art Unit 1787

August 29, 2010